

U.S. Department of Agriculture, Agricultural Research Service

Systematic Mycology and Microbiology Laboratory - Nomenclature Fact Sheets

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Phoma andigena Turkensteen 1995

Turkensteen (1995) published *Phoma andigena* as a replacement name for *Phoma andina* Turkensteen 1978, which is an illegitimate later homonym of *Phoma andina* Sacc. & P. Syd. 1904 found on *Berberis species*. *Phoma andigena* has also been referred to as *Macrophoma* sp. in the literature (e.g., Torres 1970). The teleomorph is unknown.

Distribution:

Boerema (2003) refers to *P. andigena* Turkensteen 1995 as occurring in the Andes of S. America (Bolivia and Peru). He describes it as a pathogen of wild and cultivated species of potato, *Solanum* spp. series *Tuberosa* (Solanaceae). Until recently, some sources had listed the hosts as *Solanum* sp. and *Tuberosa* sp.; however, this appears to be an error. Based on the primary literature (e.g., Boerema 2004, Boerema 1995, Noordeloos 1993, Torres 1970), *P. andigena* seems to occur only on potato, not on tomato. The Compendium of Potato Diseases 2nd edition (2001) and the EPPO data sheet (No. 141, 1984) state that *P. andigena* occurs on tomato (*Lycopersicon esculentum*) and other solanaceous weeds, but no details are given and this is not substantiated by any of the citations listed in these two publications.

Nomenclature Report:

Stagonosporopsis andigena (Turkenst.) Aveskamp, Gruyter & Verkley 2010 (Ascomycetes, Incertae sedis)

≡ *Phoma andigena* Turkenst. 1995 Note: Nom. nov.

[≡ *Phoma andina* Turkenst. 1978 - illegitimate later homonym, not included in search] Note: Not Sacc. & P. Syd. 1904.

[*Phoma andina* var. *andina* Turkenst. 1978] Note: Autonym not needed.

Distribution: South America (Andes above 2000 m).

Substrate: Leaves, soil, plant debris.

Disease Note: Leaf spot, leaf scorch, black potato blight.

Host: Wild and cultivated potatoes; *Solanum* spp. series *Tuberosa* (Solanaceae). Presence on tomato (*Lycopersicon esculentum*) is unsubstantiated (possibly referring to *Phoma andina* var. *crystalliniformis*).

Supporting Literature:

Aveskamp, M., de Gruyter, H., Woudenberg, J., Verkley, G., and Crous, P.W. 2010. Highlights of the Didymellaceae: A polyphasic approach to characterise *Phoma* and related pleosporalean genera. Stud. Mycol. 65: 1-64.

Boerema, G.H., De Gruyter, J., Noordeloos, M.E., and Hamers, M.E.C. 2004. *Phoma* identification manual: differentiation of specific and infra-specific taxa in culture. CABI Publishing, 470 pages.

Noordeloos, M.E., De Gruyter, J., Van Eijk, G.W., and Roeijmans, H.J. 1993. Production of dendritic crystals in pure cultures of *Phoma* and *Ascochyta* and its value as a taxonomic character relative to morphology, pathology and cultural characteristics. Mycol. Res. 97: 1343-1350.

Verified By: Drew On Jan 20, 2011

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